# WEST

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☐ 1. Document ID: RU 2195149 C1 GB 2369291 A DE 10140351 A1 FR 2817138 A1 US 20020066262 A1 JP 2002172077 A CN 1355002 A KR 2002041141 A NL 1018369 C2 GB 2369291 B

L1: Entry 1 of 1 File: DWPI Dec 27, 2002

DERWENT-ACC-NO: 2002-481884
DERWENT-WEEK: 200314


TITLE: Cyclone dust collector for vacuum cleaner, has slanted end wall with through-hole to divide cyclone housing into upper space for guiding vortex air flow and lower space for collecting separated contaminants from air

INVENTOR: OH, J; OH, J K ; OH, J G

PATENT-ASSIGNEE:

| ASSIGNEE | CODE |
|---|---|
| SAMSUNG KWANGJU ELECTRONICS CO LTD | SMSU |
| KOSHU DENSHI KK | KOSHN |

PRIORITY-DATA: 2000KR-0070906 (November 27, 2000)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| RU 2195149 C1 | December 27, 2002 | | 000 | A47L009/16 |
| GB 2369291 A | May 29, 2002 | | 020 | A47L009/16 |
| DE 10140351 A1 | June 6, 2002 | | 000 | A47L009/16 |
| FR 2817138 A1 | May 31, 2002 | | 000 | A47L009/16 |
| US 20020066262 A1 | June 6, 2002 | | 000 | B01D050/00 |
| JP 2002172077 A | June 18, 2002 | | 006 | A47L009/16 |
| CN 1355002 A | June 26, 2002 | | 000 | A47L009/00 |
| KR 2002041141 A | June 1, 2002 | | 000 | A47L009/16 |
| NL 1018369 C2 | August 27, 2002 | | 000 | A47L009/16 |
| GB 2369291 B | January 15, 2003 | | 000 | A47L009/16 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---|---|---|---|
| RU 2195149C1 | June 28, 2001 | 2001RU-0118748 | |
| GB 2369291A | July 27, 2001 | 2001GB-0018386 | |
| DE 10140351A1 | August 17, 2001 | 2001DE-1040351 | |
| FR 2817138A1 | August 28, 2001 | 2001FR-0011167 | |
| US20020066262A1 | January 22, 2002 | 2002US-0053839 | |
| JP2002172077A | August 7, 2001 | 2001JP-0239101 | |
| CN 1355002A | July 10, 2001 | 2001CN-0120042 | |
| KR2002041141A | November 27, 2000 | 2000KR-0070906 | |
| NL 1018369C2 | June 22, 2001 | 2001NL-1018369 | |
| GB 2369291B | July 27, 2001 | 2001GB-0018386 | |

INT-CL (IPC): A47 L 9/00; A47 L 9/16; B01 D 50/00

ABSTRACTED-PUB-NO: GB 2369291A
BASIC-ABSTRACT:

NOVELTY - A cyclone housing (30) is detachedly engaged with a cyclone structure (20) connected to the telescopic extension pipe of a vacuum cleaner. The housing has a slanted end wall (31a) with a through-hole (31b) to divide the cyclone housing interior into upper and lower spaces for guiding the swirling vortex flow of air and for collecting the contaminants separated from air, respectively.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for vacuum cleaner.

USE - Cyclone dust collector mounted on telescopic extension pipe of vacuum cleaner (claimed).

ADVANTAGE - Normal cleaning is performed regardless of orientation of the vacuum cleaner or dust collector. Since the grille is protected, damage to the grille is prevented. The presence of a dividing wall between the grille and the chamber formed by the dust-collector, reduces the blocking of contaminants such as hair, vinyl tissue in the grille and unwanted dispersal of the contaminants.

DESCRIPTION OF DRAWING(S) - The figure shows an exploded view of the cyclone dust collector mounted on the vacuum cleaner.

Cyclone structure 20

Cyclone housing 30

Slanted end wall 31a

Through-hole 31b
ABSTRACTED-PUB-NO:

US20020066262A
EQUIVALENT-ABSTRACTS:

NOVELTY - A cyclone housing (30) is detachedly engaged with a cyclone structure (20) connected to the telescopic extension pipe of a vacuum cleaner. The housing has a slanted end wall (31a) with a through-hole (31b) to divide the cyclone housing interior into upper and lower spaces for guiding the swirling vortex flow of air and for collecting the contaminants separated from air, respectively.

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Cyclone structure 20

Cyclone housing 30

Slanted end wall 31a

Through-hole 31b

CHOSEN-DRAWING: Dwg.2/5

TITLE-TERMS: CYCLONE DUST COLLECT VACUUM CLEAN SLANT END WALL THROUGH HOLE DIVIDE CYCLONE HOUSING UPPER SPACE GUIDE VORTEX AIR FLOW LOWER SPACE COLLECT SEPARATE CONTAMINATE AIR

DERWENT-CLASS: P28 X27

EPI-CODES: X27-D04A; X27-D04C;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N2002-380678



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| Terms | Documents |
|---|---|
| 2000kr-0070906.ap,prai. | 1 |

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